

U.S. Serial Number: 10/721,958
Reply to Office Action of: 10/28/04
Family Number: P2002J029-US3

Page 2 of 6

AMENDMENTS TO THE CLAIMS

1. (cancelled)

2. (cancelled)

3. (cancelled)

4. (cancelled)

5. (cancelled)

6. (cancelled)

7. (cancelled)

8. (cancelled)

9. (cancelled)

10. (currently amended) A method to determine the conditions for refinery feed stocks ~~and/or refinery feed stocks containing additives~~ for the formation and mitigation of deposits onto a solid in a controlled environment having a surface of a given shape and material comprising:

(a) controlling the environment and magnitude and duration of the temperature of said surface such that the environment and the temperature emulates the environment and temperature variation of the solid refinery surface temperature of said surface,

U.S. Serial Number: 10/721,958
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Family Number: P2002J029-US3

Page 3 of 6

(b) introducing refinery feed stocks ~~and/or refinery feed stocks~~
containing additives in controlled amounts onto said surface, and

(c) weighing said solid before and after said introducing step to
determine the amount of deposit onto said surface.

11. (previously presented) The method of claim 10 further comprising
the step of enclosing said solid.

12. (previously presented) The method of claim 11 further comprising
the step of injecting a gas into said enclosure.

13. (previously presented) The method of claim 10 further comprising
the step of programming the temperature of said surface.

14. (previously presented) The method of claim 12 wherein said gas is
air.

15. (previously presented) The method of claim 12 wherein said gas is
nitrogen.